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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/588,998	08/10/2006	Hisashi Kizuka	1034232-000042	4614	
	21839 7590 11/02/2007 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE	BOX 1404		LISTVOYB, GREGORY		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
			1796		
			NOTIFICATION DATE	DELIVERY MODE	
			11/02/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com debra.hawkins@bipc.com

		Application No.	Applicant(s)				
Office As	dian Cumman.	10/588,998	KIZUKA ET AL.				
Office Ac	tion Summary	Examiner	Art Unit				
		Gregory Listvoyb	1796				
The MAILING Period for Reply	DATE of this communication app	ears on the cover shee	t with the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status			•				
1)⊠ Responsive to	communication(s) filed on 10 Au	iaust 2006					
	Responsive to communication(s) filed on <u>10 August 2006</u> . Dip This action is FINAL. 2b) This action is non-final.						
<u> </u>	·						
<i>'</i> — · · ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) 1-25	is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s)							
6)⊠ Claim(s) <u>1-25</u>							
7) Claim(s)							
· <u> </u>	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<u>-</u>			2 2 4 4 2 () () ()				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
· · _	ome * c) None of:						
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) M Information Disclosure S	Statement(s) (PTO/SB/08)	5) 🔲 Notice	of Informal Patent Application				
Paper No(s)/Mail Date &	<u>//10/2006</u> .	6) Other:	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 recites the limitation "the solvent" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 and 12-25 rejected under 35 U.S.C. 102(b) as being anticipated by Irizato et al (US 5986042) herein Irizato.

Irizato discloses a polyimide compound (based on succinimide polymer) crosslinked with polyamine (based on lysine) which is soluble in the solvent containing aprotic polar organic solvent (N,N-dimethylformamide (DMF), (see Column 90, line D1 for all limitations of Claims 1-5) at concentration higher that 5% at room temperature, meeting the limitations of claims 1-5, 12 and 15-25.

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Note that Irizato does not explicitly disclose that cross-linked polyimide compound is soluble in DMF-containing solvent. However, he teaches that than Methanol (precipitant) was added it disintegrated the reaction product of lysine and succinimide polymer. Therefore, the cross-linked compound existed in the solvent in integrated (soluble) form.

Regarding Claims 13 and 14, Irizato discloses that the above composition can be used as a cosmetic composition or external preparation, such as part of shampoo, moisturizer, etc (see column 84, line 65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 rejected under 35 U.S.C. 103(a) as being unpatentable over Irizato.

Irizato discloses a polyimide compound (based on succinimide polymer)
crosslinked with polyamine (based on lysine) which is soluble in the solvent containing

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aprotic polar organic solvent (N,N-dimethylformamide (DMF), (see Column 90, line D1 for all limitations of Claims 1-5) at concentration higher that 5% at room temperature.

Regarding Claims 6-12, Irizato discloses a polyimide compound obtained by dehydration and condensation of amino acid (L-aspartic acid) in the presence of polyamine (Lysine) and protonic acid (Hydrochloric acid) (see comparative Example 4).

At the embodiment above Inzato does not disclose the use of DMF and 0.05-10%mol of Lysine.

Irizato discloses use of DMF at another embodiment of the invention (see discussion above). Due to a better solubility of the above compound in DMF, it would be obvious to perform the crosslinking reaction in this solvent, subsequently providing homogeneous conditions, which leads to even distribution of Lysine among L-aspartic acid fragments. It would result better water-absorbing properties of the finished product (see Column 97, line 30).

Therefore, it would have been obvious to a person of ordinary skills in the art to use DMF as a solvent in preparation of polyimide compound in order to increase water-absorbing properties of the finished product.

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Regarding limitations of Claim 8, Irizato teaches 0.1-50%, preferably 0.5-10%

mol of cross-linking agent (see Column 15, line 65).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gregory Listvoyb whose telephone number is (571) 272-

6105. The examiner can normally be reached on 10am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Gregory Listvoyb

Examiner

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